

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111820\  
 Data File : VL035971.D  
 Acq On : 18 Nov 2020 12:10  
 Operator : SY/AP  
 Sample : VL1118ABL01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1118ABL01

Quant Time: Nov 19 08:10:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 04 02:40:06 2020  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.63  | 49   | 1099734  | 10.00 | ppbv  | -0.04    |
| 33) 1,4-Difluorobenzene | 7.14  | 114  | 4091011  | 10.00 | ppbv  | -0.04    |
| 55) Chlorobenzene-d5    | 12.05 | 117  | 3896218  | 10.00 | ppbv  | -0.04    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.38  | 95    | 2827749  | 10.22    | ppbv | -0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 102.20% |

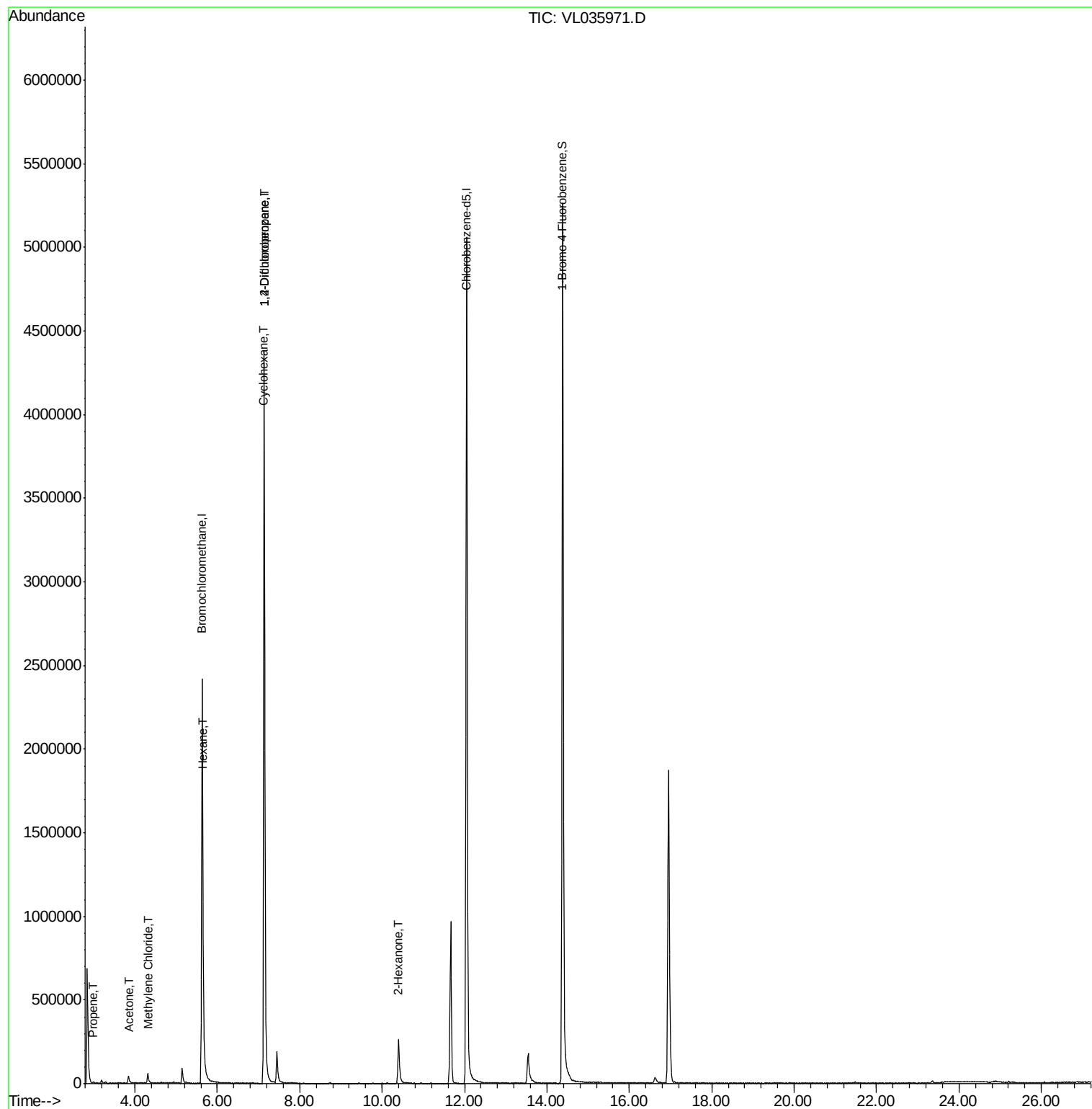
| Target Compounds        | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|-------------------------|-------|------|----------|-------|--------|--------|
| 9) Propene              | 2.99  | 41   | 1533     | 0.032 | ppbv # | 15     |
| 15) Acetone             | 3.84  | 43   | 39137    | 0.333 | ppbv # | 4      |
| 20) Methylene Chloride  | 4.31  | 84   | 28364    | 0.343 | ppbv   | 93     |
| 26) Hexane              | 5.65  | 57   | 3950     | 0.031 | ppbv # | 44     |
| 30) Cyclohexane         | 7.12  | 84   | 10185    | 0.073 | ppbv # | 1      |
| 39) 1,2-Dichloropropane | 7.14  | 63   | 821774   | 8.025 | ppbv # | 30     |
| 51) 2-Hexanone          | 10.40 | 43   | 50460    | 0.309 | ppbv # | 46     |

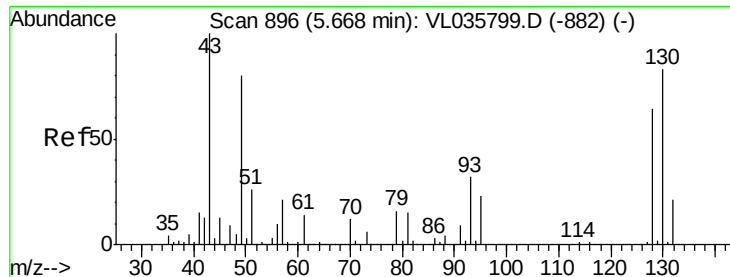
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111820\  
Data File : VL035971.D  
Acq On : 18 Nov 2020 12:10  
Operator : SY/AP  
Sample : VL1118ABL01  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1118ABL01

Quant Time: Nov 19 08:10:24 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 04 02:40:06 2020  
QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 885

Delta R.T. -0.04 min

Lab File: VL035971.D

Acq: 18 Nov 2020 12:10

Instrument :

MSVOA\_L

ClientSampleId :

VL1118ABL01

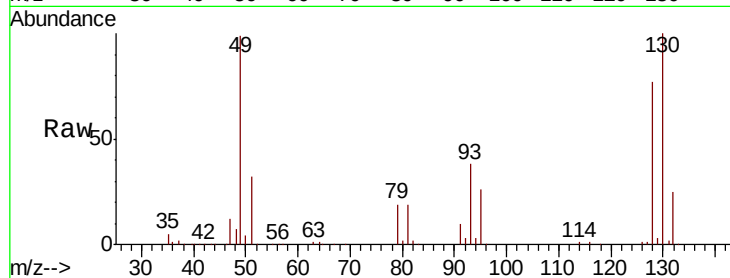
Tot Ion: 49 Resp: 1099734

Ion Ratio Lower Upper

49 100

128 79.3 41.5 124.6

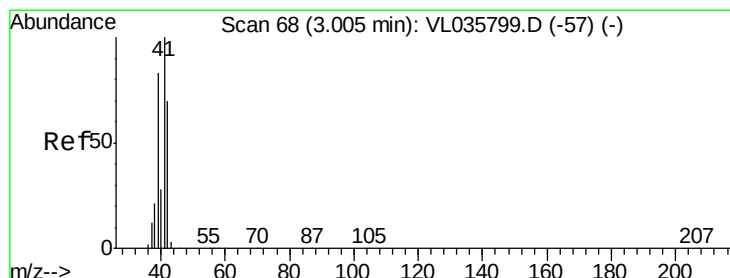
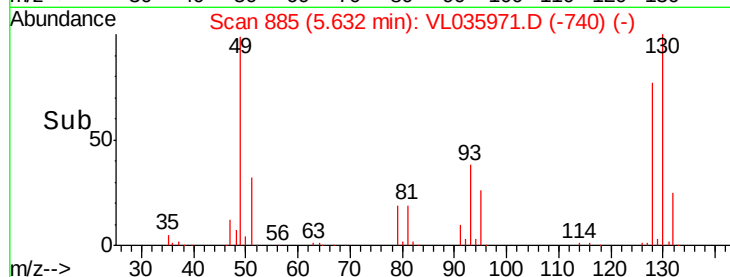
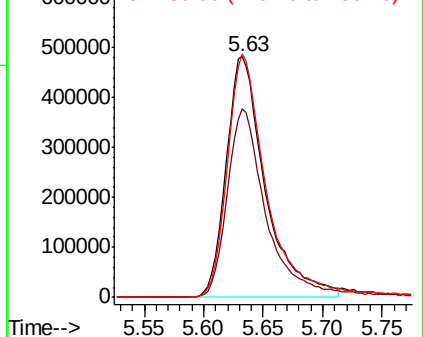
130 104.0 53.7 161.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 0.032 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.02 min

Lab File: VL035971.D

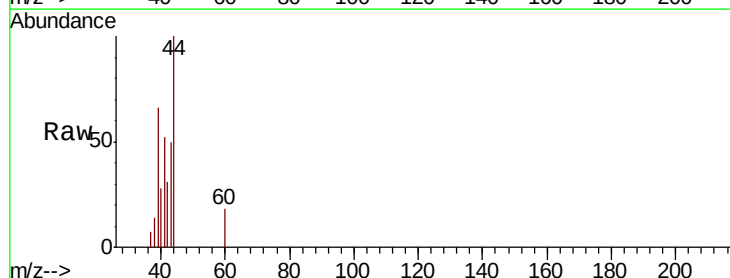
Acq: 18 Nov 2020 12:10

Tgt Ion: 41 Resp: 1533

Ion Ratio Lower Upper

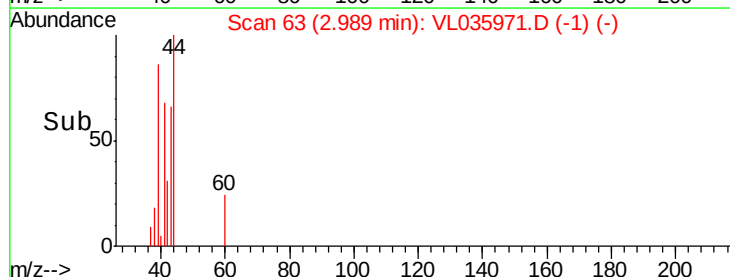
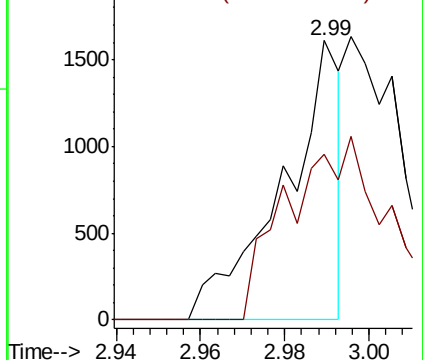
41 100

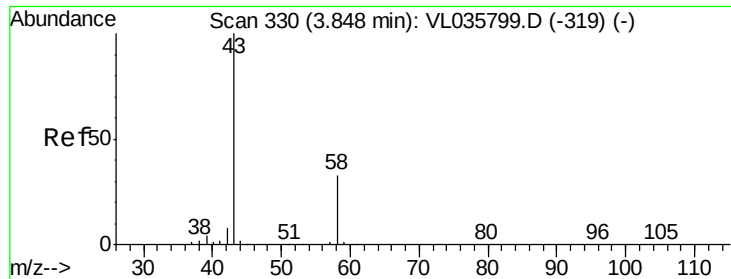
42 0.0 56.2 84.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#15

Acetone

Concen: 0.333 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL035971.D

Acq: 18 Nov 2020 12:10

Instrument :

MSVOA\_L

ClientSampleId :

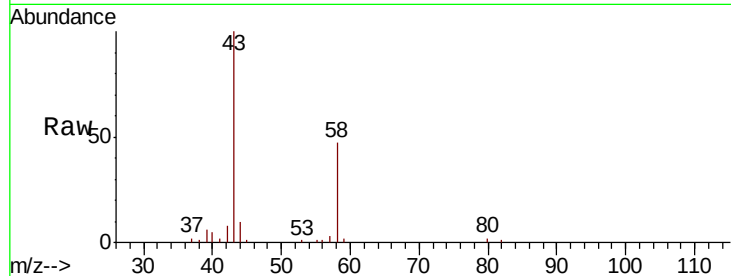
VL1118ABL01

Tot Ion: 43 Resp: 39137

Ion Ratio Lower Upper

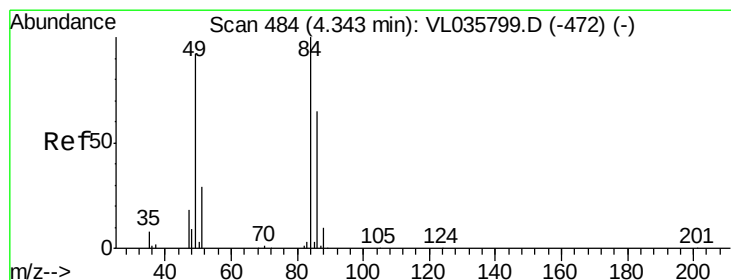
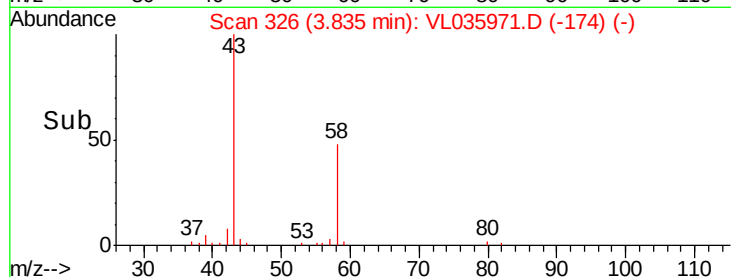
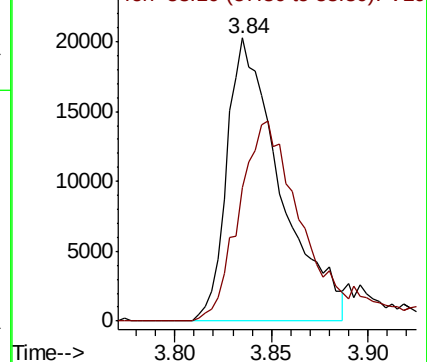
43 100

58 89.8 27.5 41.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.343 ppbv

RT: 4.31 min Scan# 475

Delta R.T. -0.03 min

Lab File: VL035971.D

Acq: 18 Nov 2020 12:10

Tgt Ion: 84 Resp: 28364

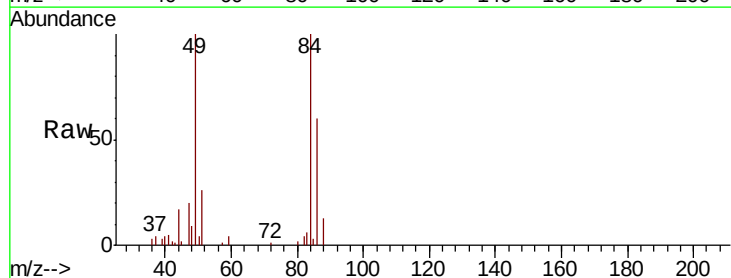
Ion Ratio Lower Upper

84 100

49 99.8 73.8 110.8

51 25.6 23.0 34.4

86 60.5 52.1 78.1

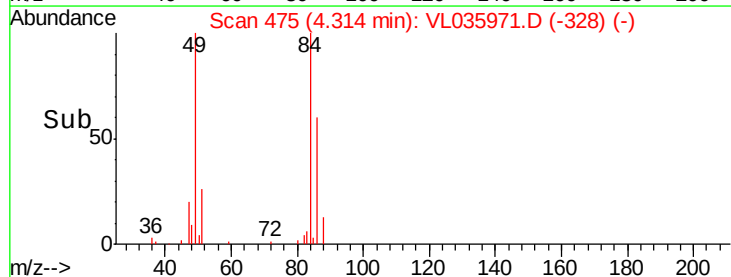
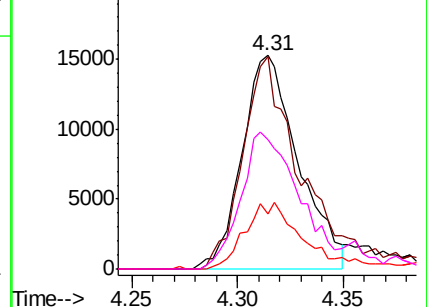


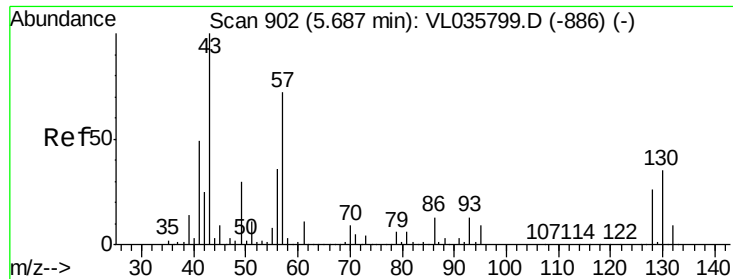
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

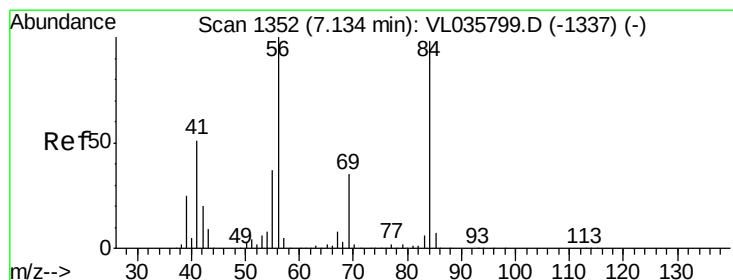
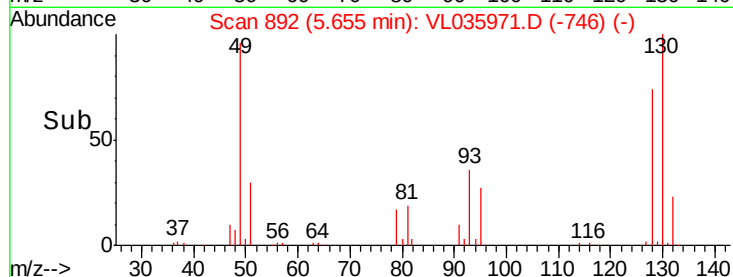
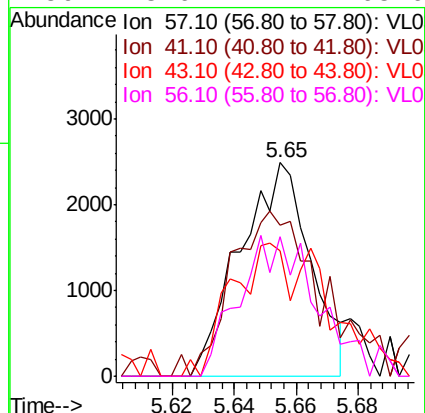
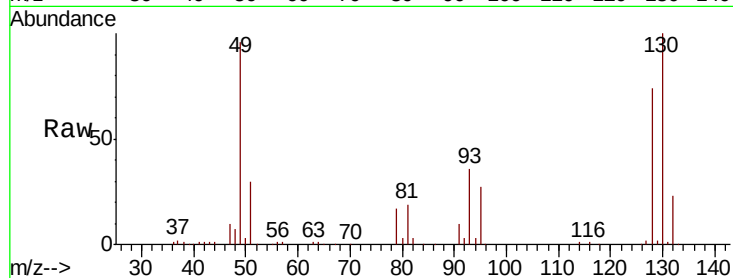




#26  
Hexane  
Concen: 0.031 ppbv  
RT: 5.65 min Scan# 892  
Delta R.T. -0.03 min  
Lab File: VL035971.D  
Acq: 18 Nov 2020 12:10

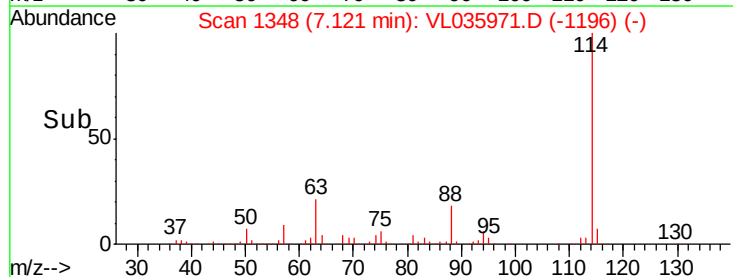
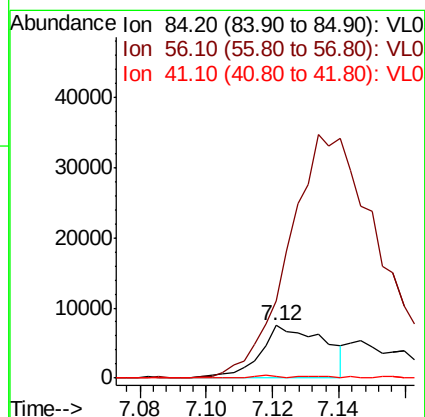
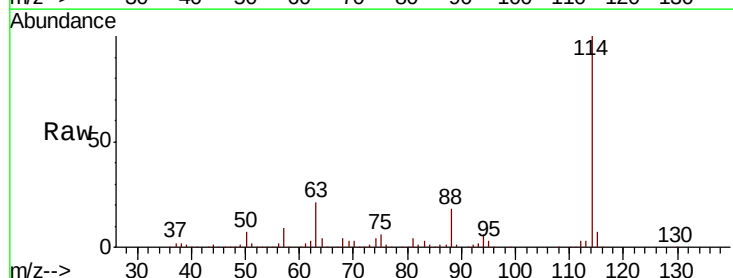
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL1118ABL01

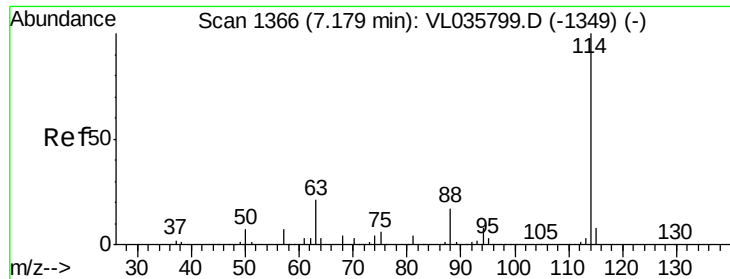
Tot Ion: 57 Resp: 3950  
Ion Ratio Lower Upper  
57 100  
41 110.6 58.9 88.3#  
43 89.1 150.2 225.2#  
56 73.6 42.4 63.6#



#30  
Cyclohexane  
Concen: 0.073 ppbv  
RT: 7.12 min Scan# 1348  
Delta R.T. -0.01 min  
Lab File: VL035971.D  
Acq: 18 Nov 2020 12:10

Tgt Ion: 84 Resp: 10185  
Ion Ratio Lower Upper  
84 100  
56 707.4 86.4 129.6#  
41 0.0 42.1 63.1#

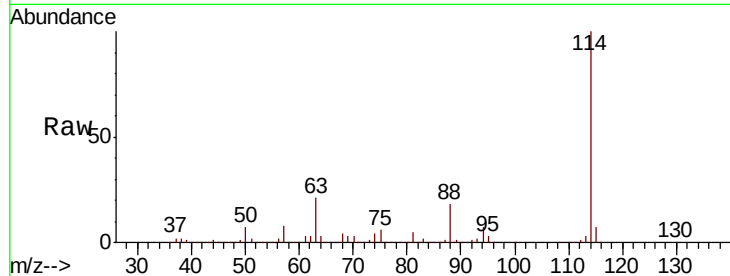




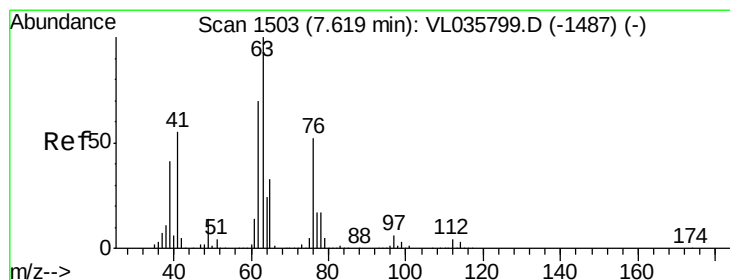
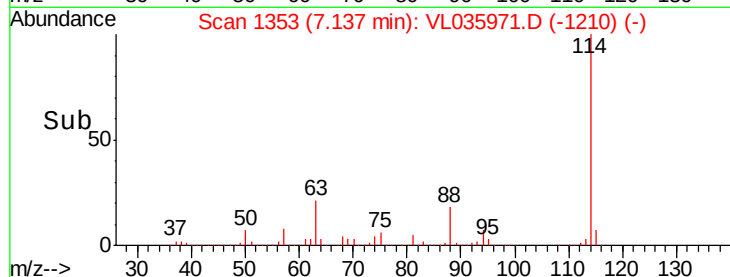
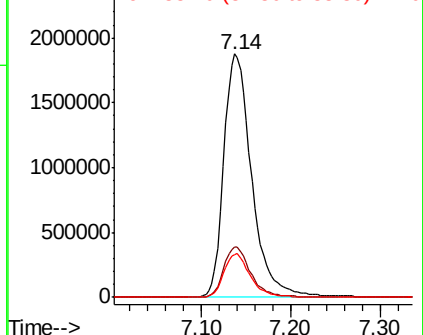
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.14 min Scan# 1353  
 Delta R.T. -0.04 min  
 Lab File: VL035971.D  
 Acq: 18 Nov 2020 12:10

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1118ABL01

Tot Ion:114 Resp: 4091011  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 16.1 24.1  
 88 17.0 13.7 20.5

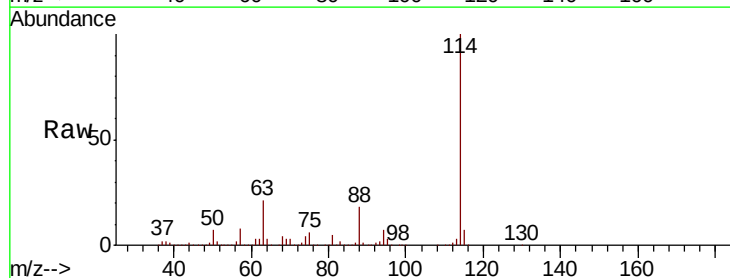


Abundance Ion 114.10 (113.80 to 114.80): VL0  
 Ion 63.10 (62.80 to 63.80): VL0  
 Ion 88.10 (87.80 to 88.80): VL0

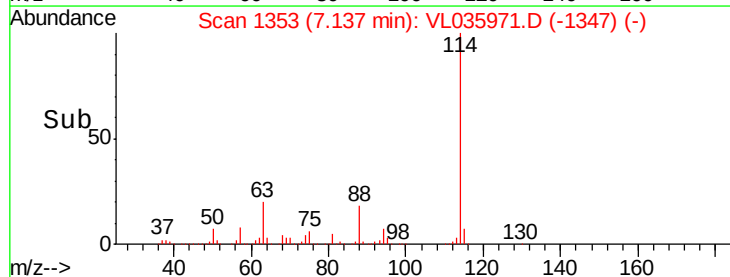
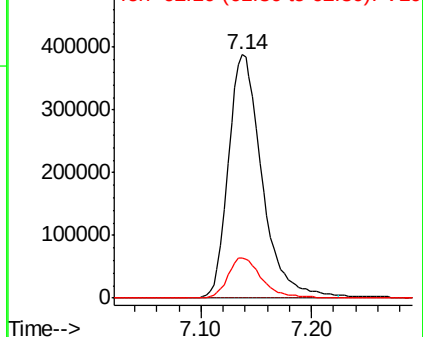


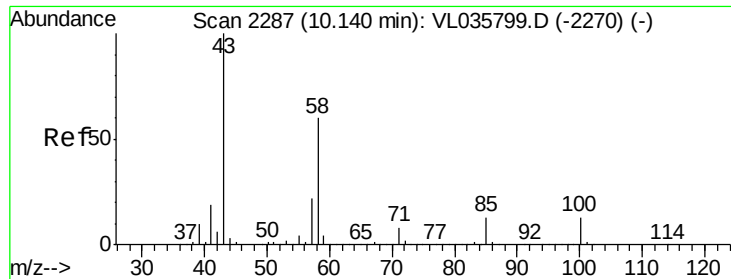
#39  
 1,2-Dichloropropane  
 Concen: 8.025 ppbv  
 RT: 7.14 min Scan# 1353  
 Delta R.T. -0.48 min  
 Lab File: VL035971.D  
 Acq: 18 Nov 2020 12:10

Tgt Ion: 63 Resp: 821774  
 Ion Ratio Lower Upper  
 63 100  
 41 0.1 43.8 65.6#  
 62 16.6 56.2 84.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0  
 Ion 41.10 (40.80 to 41.80): VL0  
 Ion 62.10 (61.80 to 62.80): VL0





#51

2-Hexanone

Concen: 0.309 ppbv

RT: 10.40 min Scan# 2367

Delta R.T. 0.26 min

Lab File: VL035971.D

Acq: 18 Nov 2020 12:10

Instrument :

MSVOA\_L

ClientSampleId :

VL1118ABL01

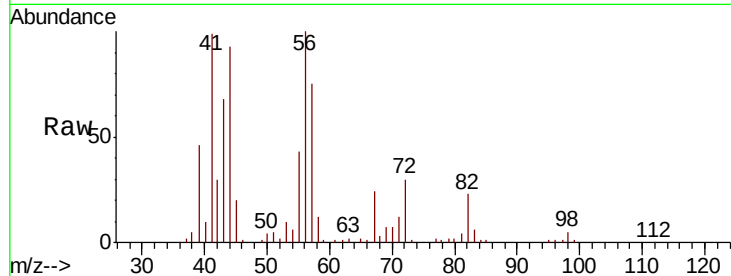
Tot Ion: 43 Resp: 50460

Ion Ratio Lower Upper

43 100

58 19.0 48.3 72.5#

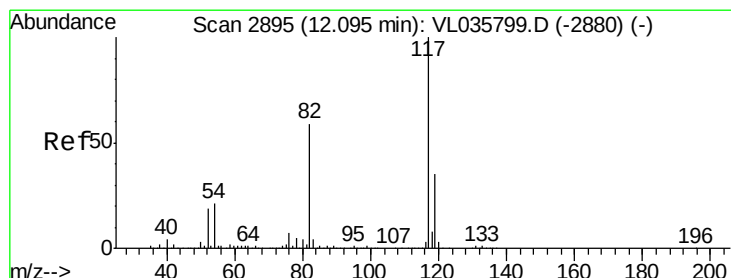
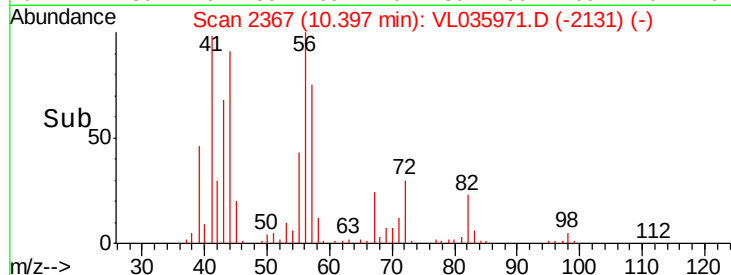
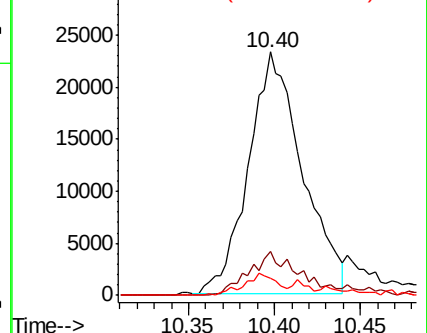
98 9.6 0.6 0.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2881

Delta R.T. -0.04 min

Lab File: VL035971.D

Acq: 18 Nov 2020 12:10

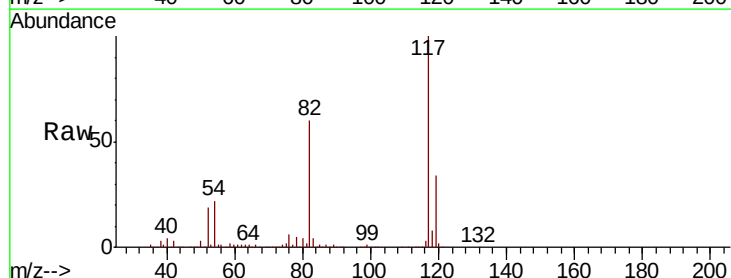
Tgt Ion: 117 Resp: 3896218

Ion Ratio Lower Upper

117 100

82 60.4 50.6 76.0

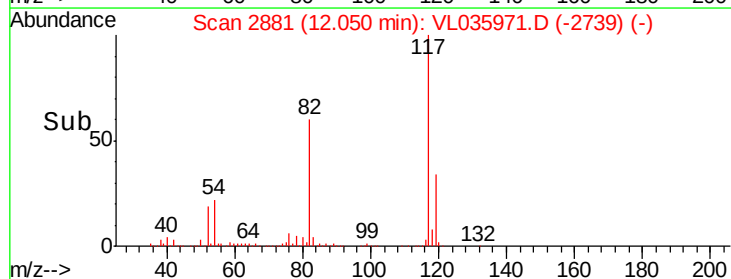
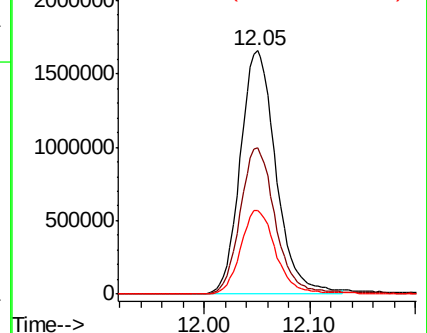
119 34.8 52.6 78.8#

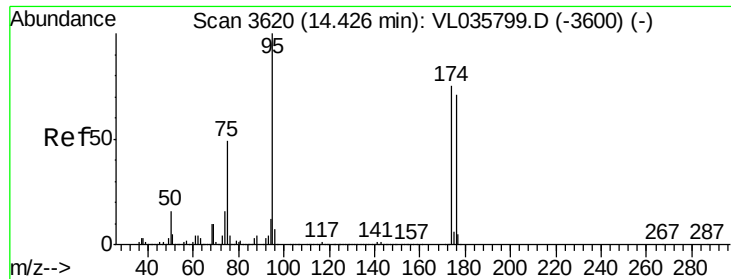


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.215 ppbv  
 RT: 14.38 min Scan# 3606  
 Delta R.T. -0.04 min  
 Lab File: VL035971.D  
 Acq: 18 Nov 2020 12:10

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL1118ABL01

Tot Ion: 95 Resp: 2827749  
 Ion Ratio Lower Upper  
 95 100  
 174 73.8 59.8 89.6  
 175 5.1 4.3 6.5

